Summary of the Invention

[0006] According to the first aspect, the present invention provides a method of modulating display imagery for barcode simulation. In accordance with an embodiment, barcode information is received into a portable device. The portable device includes an image capture system, the image capture system including an image sensor that is configured to convert light into discrete signals. The image capture system has an image sensor controller that is configured to control the image sensor. The image capture system has an image processor that is configured to convert the discrete signals into formatted image data. The portable device has a display system having a display screen configured to display formatted image data. The barcode information is used to manipulate the image capture system such that the display screen displays a light simulated barcode.

[0006a] According to a second aspect, the present invention provides a system for modulating display imagery for barcode simulation comprising: an image capture system, the image capture system being included in a portable device and having an image sensor that is configured to convert light into discrete signals and the image capture system having an image sensor controller that is configured to control parameters of the image sensor and the image capture system having an image processor that is configured to convert the discrete signals into formatted image data; and a display system included in the portable device, the display system having a display screen configured to display formatted image data, wherein the system is configured to manipulate the image capture system such that the display screen displays a light simulated barcode.

[0007] The above and other embodiments are described herein.

Brief Description of the Drawings

[0008] The present invention is described with respect to particular exemplary embodiments thereof and reference is accordingly made to the drawings in which:

[0009] Figure 1 illustrates a schematic block diagram of a portable electronic device configured to modulate display imagery in accordance with an embodiment of the present invention;

[0010] Figure 2 illustrates a one-dimensional barcode that can be communicated in accordance with an embodiment of the present invention;

[0011] Figure 3 illustrates a graph of a modulated characteristic of a signal for communicating a one-dimensional barcode in accordance with an embodiment of the present invention;

[0012] Figure 4 illustrates a schematic block diagram of an image capture system of a portable electronic device in accordance with an embodiment of the present invention;

[0013] Figure 5 illustrates a schematic block diagram of a portable electronic device configured to modulate display imagery in accordance with an embodiment of the present invention; and